GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 3, 2000, 18:59:08 ; Search time 328.13 Seconds
(without alignments)
2843.411 Million cell updates/sec

Title: us-09-227-881-3
Perfect score: 6169
Sequence: 1 atctttgttcagttacctc..........cttgtgcccctccaatgtcag 6169

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 262060 seqs, 75620727 residues

Total number of hits satisfying chosen parameters: 524120

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/1na/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/1na/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/1na/5C_COMB.seq:*
4: /cgn2_6/ptodata/2/1na/5D_COMB.seq:*
5: /cgn2_6/ptodata/2/1na/6_COMB.seq:*
6: /cgn2_6/ptodata/2/1na/PCTUS_COMB.seq:*
7: /cgn2_6/ptodata/2/1na/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Match Length	DB	ID	Description
1	640.4	10.4	1999	3	US-08-645-900A-2	Sequence 2, Appli
2	640.4	10.4	1999	3	US-08-882-238A-2	Sequence 2, Appli
3	640.4	10.4	1999	3	US-08-667-790A-2	Sequence 2, Appli
4	638.8	10.4	1985	3	US-08-791-347-1	Sequence 1, Appli
5	604.4	9.8	1512	3	US-08-645-900A-3	Sequence 3, Appli
6	604.4	9.8	1512	3	US-08-882-238A-3	Sequence 3, Appli
7	604.4	9.8	1512	3	US-08-667-790A-3	Sequence 3, Appli
8	601.8	9.8	1509	3	PCT-US95-14024-2	Sequence 2, Appli
9	601.8	9.8	1509	6	US-08-791-347-2	Sequence 2, Appli
10	556.6	9.0	1968	1	US-08-336-235A-2	Sequence 2, Appli
11	556.6	9.0	1969	2	US-08-649-432-2	Sequence 2, Appli
12	519.6	8.4	1491	2	US-08-336-235A-3	Sequence 3, Appli
13	519.6	8.4	1491	2	US-08-649-432-3	Sequence 3, Appli
14	519.6	8.4	1491	6	PCT-US95-14024-3	Sequence 3, Appli
15	204	3.3	643	6	US-08-791-347-15	Sequence 15, Appli
16	174.2	2.8	282	1	US-08-133-629-8	Sequence 8, Appli
17	173.2	2.8	17327	1	US-07-906-871-15	Sequence 15, Appli
18	169	2.7	5543	4	US-08-687-080-101	Sequence 101, App
19	165	2.7	2115	3	US-08-395-800A-7	Sequence 7, Appli
20	164.6	2.7	6769	5	US-08-480-784-20	Sequence 20, Appli
21	164.6	2.7	6769	5	US-08-483-553-20	Sequence 20, Appli
22	164.6	2.7	6769	2	US-08-487-002-20	Sequence 20, Appli
23	164.6	2.7	6769	2	US-08-488-0115-20	Sequence 20, Appli
24	164.6	2.7	6769	2	US-08-488-554B-20	Sequence 20, Appli
25	164.6	2.7	6769	6	PCT-US95-10202-20	Sequence 20, Appl
26	164.6	2.7	6769	6	PCT-US95-10203-20	Sequence 20, Appl
27	164.6	2.7	6769	6	PCT-US95-10220-20	Sequence 20, Appl
28	163.6	2.7	4823	4	US-08-457-254-5	Sequence 5, Appl
29	163.6	2.7	4823	4	US-08-484-257-20	Sequence 20, Appl
30	163.6	2.7	4823	4	US-08-999-927-5	Sequence 5, Appl
31	163.6	2.7	4823	6	PCT-US94-08806-28	Sequence 28, Appl
32	163.6	2.7	4823	6	PCT-US95-01829-5	Sequence 5, Appl
33	163.6	2.7	4823	6	PCT-US95-16626-5	Sequence 5, Appl
34	163.2	2.7	3035	4	US-08-726-725-2	Sequence 2, Appl
35	162.6	2.6	2002	4	US-08-715-202A-3	Sequence 3, Appl
36	162.4	2.6	2477	1	US-08-422-742-1	Sequence 1, Appl
37	162.2	2.6	7676	3	US-08-451-777A-7	Sequence 7, Appl
38	162.2	2.6	7676	3	US-08-998-208-7	Sequence 7, Appl
39	162.2	2.6	7676	1	PCT-US94-06743-7	Sequence 7, Appl
40	162.2	2.6	7676	3	US-08-724-394A-20	Sequence 20, Appl
41	161.6	2.6	246240	3	US-08-724-394A-21	Sequence 21, Appl
42	161.6	2.6	246240	3	US-08-724-394A-22	Sequence 22, Appl
43	161.6	2.6	246240	1	US-07-821-716-1	Sequence 1, Appl
44	160.8	2.6	3011	1	US-08-724-394A-22	Sequence 22, Appl
45	160.6	2.6	176373	5	US-09-128-155-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1
US-08-645-900A-2
Sequence 2, Application US/08645900A
Patent No. 5849879
GENERAL INFORMATION:
APPLICANT: NGUYEN, THAI D.
APPLICANT: POLANSKY, JON R.
APPLICANT: HUANG, WEIDONG
TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF
TITLE OF INVENTION: GLAUCOMA
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: HOWREY & SIMON
STREET: 1299 PENNSYLVANIA AVE., N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: US
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/645,900A
FILING DATE: 14 MAY 1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: MARSH, DAVID
REGISTRATION NUMBER: 41,408
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 383-7451
TELEFAX: (202) 383-6610
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1999 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-645-900A-2

Query Match 10.4%; Score 640.4; DB 3; Length 1999;
Best Local Similarity 99.8%; Pred. No. 1.5e-147;
Matches 641; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5301 aggcttccagagaggaagcctcaccaagcctctgcaatgaggttctccatggtcacgttgc 5360
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

```
Qy          1 AGAGCTTTCCAGGAGAAGCCTCACCAAGCCTCTCCAATGAGGTTCTTCTGTGCACGTTGC 60

Db       5361 tgcagcttttgggcctgagatgccagctgtccagctgctgctttctggcctggtgtgg 5420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TGCAGCTTTGGGCCTGAGATGCCAGCTGTCCAGCTGCTGCTTTCTGGCCTGGTGTGG 120

Qy       5421 gatgtgggggcccaggacagagctcagctcaggaagccaatgaccagaagtggccgatg 5480
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GATGTGGGGGCCCAGGACAGAGCTCAGCTCAGGAAGCCAATGACCAGAAGTGGCCGATGCCAG 180

Qy       5481 tatacccttcagtgtggcccagtccccaatgaatccagctgcccagaggacagagccaggccatg 5540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TATACCTTCAGTGTGGCCCAGTCCCCAATGAATCCAGCTGCCCAGAGACAGAGCCAGGCCATG 240

Qy       5541 tcagtcatccataacttacagagaggacagagctcttagacctggaggccacc 5600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TCAGTCATCCATAACTTACAGAGAGGACAGCACCACCAACCAGCTTAGACTGGAGGCCACC 300

Qy       5601 aaagctcgactcagctcctgggaggagctctccaccaattgacctggaccaggctgcc 5660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 AAAGCTCGACTCAGCTCCTGGGAGGAGCTCTCCACCAATTGACCTTGGACCAGGCTGCC 360

Qy       5661 aggcccccaggagagacccagggaggggctctgggcacccctgaggcgggaagccgg 5720
              |||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 AGGCCCCCAGGAGAGACCCAGGGAGGGGCTCTGGGCACCCCTGAGGCGGGGAGCCGG 420

Qy       5721 gaccagctggaaaccccaacccaaccagaggagagtgttggagactgtgctctacagcaaccctcctccagaac 5780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GACCAGCTGGAAACCCCAAACCCAGAGGAGAGTGTTGGAGACTGTGCTACAGCAACCTCCTCCGAGAC 480

Qy       5781 aagtcagttctgaggaggaggaggaagagctcaagcagaaaatgagaatctggccagg 5840
              ||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 AAGTCAGTTCTGAGGAGGAGGAGGAAGAGCTCAAGCAGAAAATGAGAATCTGGCCAGG 540

Qy       5841 aggttggaaagcagcagcccaggaggtagcaaggctgagaaagggccagtgtcccagacc 5900
              ||||||||||||||||||||||||||||||||||||||||||||||
Db        541 AGGTTGGAAAGCAGCAGCCAGGAGGTAGCAAGGCTGAGAAAGGGCCAGTGTCCCAGACC 600

Qy       5901 cgagacactgctcgggcctgtgccaccaggctccagagagaaggt 5942
              ||||||||||||||||||||||||||||||||||||||||||||
Db        601 CGAGACACTGCTCGGGCTGTGCCACCAGGCTCCAGAGAGAAGTT 642
```

RESULT 2
US-08-882-238A-2
; Sequence 2, Application US/08882238A
; Patent No. 5854415
GENERAL INFORMATION:
; APPLICANT: NGUYEN, THAI D.
; APPLICANT: POLANSKY, JON R.
; APPLICANT: HUANG, WEIDONG
; TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF
; TITLE OF INVENTION: GLAUCOMA
; NUMBER OF SEQUENCES: 3

US-08-882-238A-2

Query Match   10.4%; Score 640.4; DB 3; Length 1999;
Best Local Similarity   99.8%; Pred. No. 1.5e-147;
Matches 641; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy       5301 agagctttccaggaggaagcctcaccaagcctctccaatgaggttcttctgtgcacgttgc 5360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AGAGCTTTCCAGGAGAAGCCTCACCAAGCCTCTCCAATGAGGTTCTTCTGTGCACGTTGC 60

Qy       5361 tgcagctttgggcctgagatgccagctgtccagctgctgctttctggcctggtgtgg 5420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TGCAGCTTTGGGCCTGAGATGCCAGCTGTCCAGCTGCTGCTTTCTGGCCTGGTGTGG 120

Qy       5421 gatgtgggggcccaggacagagctcagctcaggaagccaatgaccagaagtggccgatg 5480
              ||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GATGTGGGGGCCCAGGACAGAGCTCAGCTCAGGAAGCCAATGACCAGAAGTGGCCGATGCCAG 180

Qy       5481 tcagtcatccataacttacagagaggacagagctcttagacctggaggccacc 5540
              ||||||||||||||||||||||||||||||||||||||||||||
Db        181 TATACCTTCAGTGTGGCCCAGTCCCCAATGAATCCAGCTGCCCAGAGACAGAGCCAGGCCATG 240

Qy       5541 tcagtcatccataacttacagagaggacagcaccaccaaccagcttagactggaggccacc 5600
              ||||||||||||||||||||||||||||||||||||||||||||
Db        241 TCAGTCATCCATAACTTACAGAGAGGACAGCACCACCAACCAGCTTAGACTGGAGGCCACC 300

Qy       5601 aaagctcgactcagctcctgggaggagctctccaccaattgacctggaccaggctgcc 5660
              ||||||||||||||||||||||||||||||||||||||||
Db        301 AAAGCTCGACTCAGCTCCTGGGAGGAGCTCTCCACCAATTGACCTTGGACCAGGCTGCC 360

Qy       5661 aggcccccaggagagacccagggagggggctctgggcacccctgaggcgggaagccgg 5720
              ||||||||||||||||||||||||||||||||||||
Db        361 AGGCCCCCAGGAGAGACCCAGGGAGGGGCTCTGGGCACCCCTGAGGCGGGGAGCCGG 420

Qy       5721 gaccagctggaaaccccaacccaaccagaggagagttggagactgtgctctacagcaaccctcctccggagac 5780
              ||||||||||||||||||||||||||||||||||||
Db        421 GACCAGCTGGAAACCCCAAACCCAGAGGAGAGTGTTGGAGACTGTGCTACAGCAACCTCCTCCGAGAC 480

Qy       5781 aagtcagttctggaggaggaggaagagctcaagcagaaaatctggccagg 5840
              ||||||||||||||||||||||||||||||||||||
Db        481 AAGTCAGTTCTGGAGGAGGAGGAAGAGCTCAAGCAGAAAATGAGAATCTGGCCAGG 540

Qy       5841 aggttggaaagcagcagcccaggaggtagcaaggctgagaaagggccagtgtcccagacc 5900
              ||||||||||||||||||||||||||||||||
Db        541 AGGTTGGAAAGCAGCAGCCAGGAGGTAGCAAGGCTGAGAAAGGGCCAGTGTCCCAGACC 600

Qy       5901 cgagacactgctcgggcctgtgccaccaggctccagagagaaggt 5942
              ||||||||||||||||||||||||||||
Db        601 CGAGACACTGCTCGGGCTGTGCCACCAGGCTCCAGAGAGAAGTT 642
```

RESULT 3
US-08-667-790A-2
; Sequence 2, Application US/08667790A
; Patent No. 5861497
GENERAL INFORMATION:
; APPLICANT: NGUYEN, THAI D.
; APPLICANT: POLANSKY, JON R.
; APPLICANT: HUANG, WEIDONG
; TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF
; TITLE OF INVENTION: GLAUCOMA
; NUMBER OF SEQUENCES: 3

```
: CORRESPONDENCE ADDRESS:
:   ADDRESSEE: HOWREY & SIMON
:   STREET: 1299 PENNSYLVANIA AVE., N.W.
:   CITY: WASHINGTON
:   STATE: D.C.
:   COUNTRY: US
:   ZIP: 20004
: COMPUTER READABLE FORM:
:   MEDIUM TYPE: Floppy disk
:   COMPUTER: IBM PC compatible
:   OPERATING SYSTEM: PC-DOS/MS-DOS
:   SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
:   APPLICATION NUMBER: US/08/667,790A
:   FILING DATE: 21 JUNE 1996
:   CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
:   NAME: MARSH, DAVID
:   REGISTRATION NUMBER: 41,408
: TELECOMMUNICATION INFORMATION:
:   TELEPHONE: (202) 383-7451
:   TELEFAX: (202) 383-6610
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 1999 base pairs
:   TYPE: nucleic acid
:   STRANDEDNESS: single
:   TOPOLOGY: linear
:   MOLECULE TYPE: cDNA
US-08-667-790A-2

Query Match            10.4%;       Score 640.4; DB 3;    Length 1999;
Best Local Similarity   99.8%;      Pred. No. 1.5e-147;
Matches   641;   Conservative   0;  Mismatches   1;   Indels   0;   Gaps   0;

Qy  5301 agagcttcccgaggaggaagcctcaaccaagcctctgcaatgagggttcttctgtgcacgttgc 5360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 AGAGCTTTCCAGAGGAAGCCCTCACCAAGCCTCTCCAATGAGGTTCTTCTTGTGCACGTTGC 60

Qy  5361 tgcagcttggcctgagatgccagctgtccagctgtcagctgtcttctgtgcctgtgtgtg 5420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 TGCAGCTTTGGCCTGAGATGCCAGCTGTCCAGCTGTCCAGCTGTCTTCTGGCCTGCCTGGTGTGG 120

Qy  5421 gatgtggggggccaggagcaagctcagctcaggaggaggccaatgacccagagagatggccgatg 5480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GATGTGGGGGCCAGGAGCAAGCTCAGCTCAGGAAGGCCAATGACCAGAGTGGGCCGATGCCAG 180

Qy  5481 tataccttcagtgtggccagtcccaatgaatccagctgcccagagagagcagcaggccatg 5540
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 TATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGCTGCCCAGAGCAGAGCAGGCCATG 240

Qy  5541 tcagtcatccataactaacttacagagagaacagcagcacccaagcttagacctggagggccacc 5600
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 TCAGTCATCCATAACTTACAGAGAGACAGCAGCACCCAAGCGTTAGACCTGGAGGCCACC 300

Qy  5601 aaagctcagctcagctcctcggagagcctcctccaccaattgacctggaccaggctgcc 5660
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 AAAGCTCGACTCAGCTCCCTGGAGAGCCTTCCTCCACCAATTGACCTTGGACCAGGCTGCC 360

Qy  5661 aggccccaggagaacccagaggagggggctgcagagaggagctcgagggggagcgcggg 5720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 AGGCCCCAGGAGACCCAGGAGGGGCTGCAGAGGGGGCCACCCTGAGGCGCGGAGCGG 420

Qy  5721 gaccagctggaaacccaaaccagagagttggagactgcctacagcaacctcctccagaac 5780
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 GACCAGCTGGAAACCCAAACCAGAGAGTTGGAGACTGCCTACAGCAACCTCCTCCGGAAC 480

Qy  5781 agtcagttctgggaggagaagcgaagcctaaggcaagaatctggccagg 5840
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 AAGTCAGTTCTGGAGGAGAAGAGAAAGCGACTAAGGCAAGAAATGAGAAATCTGCCCAGG 540

Qy  5841 aggttggaaagcagcagccaggccagtgtcccagacc 5900
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 AGGTTGGAAAGCAGCAGCCAGGAGGTAGCAAGGCTGAGAAGGGGCCCAGTGTCCCAGACC 600
```

```
Db   541 AGGTTGGAAAGCAGCAGCCAGGAGGTAGCAAGGCTGAGAAGGGGCCCAGTGTCCCAGACC 600
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy  5901 cgagacacgtcgctcgggcgtgtgtcacccaggccaagagaggt 5942
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 CGAGACACTGCCTCGGCGCTGTGCCACGTGCCACCAGCGCTCCAGAGAGAGTT 642

Query Match            10.4%;       Score 638.8; DB 3;    Length 1985;
Best Local Similarity   95.9%;      Pred. No. 3.6e-147;
Matches   655;   Conservative   0;  Mismatches   28;   Indels   0;   Gaps   0;

Qy  5299 gcagagcttcccagaggaggaaggacctccaccaagcctctgcaatgagggttcttctgtgcacgtt 5358
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    30 GNAGAGCTTTCCAGAGGGAAGCCTCACCAAGCCTCTGCAATGAGGTTCTTCTTGTGCACGTT 89

Qy  5359 gctgcagcttttgggcctgagatgccagctgtccagctgtcctggtgt 5418
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    90 GCTCCAGCTTTTGGGCCTGAGATGCCAGCTGTTCCACTGCTTCTGGCCTGCCTGGGTGT 149

Qy  5419 ggggatgtgggggccaggacagctcagctcaggaggaaggccaatgaccagatgcc 5478
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   150 GGGGATGTGGGGGCCAGGACAGCTCAGCTCAGGAAGGCCAATGACCAGACTGGGCCGATGCC 209

Qy  5479 agtatacccttcagtgtggccagtcccaatgaatccagctgcccagagcaagcagcagggcca 5538
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   210 AGTATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGCTGCCCAGAGCAGAGCAGCAGGGCCA 269

Qy  5539 tgtcagtcatccataacttacagagagagacagcacccaacgctttagacctggagggcca 5598
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

RESULT 5
US-08-645-900A-3
Sequence 3, Application US/08645900A
Patent No. 5849879

GENERAL INFORMATION:

APPLICANT: NGUYEN, THAI D.
APPLICANT: POLANSKY, JON R.
APPLICANT: HUANG, WEIDONG

TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF GLAUCOMA

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:
ADDRESSEE: HOWREY & SIMON
STREET: 1299 PENNSYLVANIA AVE., N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: US
ZIP: 2004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/645,900A
FILING DATE: 14 MAY 1996
CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:
NAME: MARSH, DAVID
REGISTRATION NUMBER: 41,408

TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 383-7451
TELEFAX: (202) 383-6610

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 1512 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA
US-08-645-900A-3

Query Match   9.8%; Score 604.4; DB 3; Length 1512;
Best Local Similarity 99.8%; Pred. No. 8.6e-139;
Matches 605; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   5337 atgaggttcttctgtgcacgttgctcgcagctttgggcctcagagaatgccagctgtcagctg 5396
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 ATGAGGTTCTTCTGTGCACGTTGCTCGCAGCTTTGGGCCTCAGAGAATGCCAGCTGTCCAGCTG 60

Qy   5397 ctgcttcctggcctgctgtgtgttgggatgtggggggcaggacaagctcaagctcaaggaaggcc 5456
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTGCTTCCTGGCCTGCTGTGTGTTGGGGGCCAGGACAGCTCAAGCTCCAGGAAGGCC 120

Qy   5457 aatgaccagagtgcccgatgccagtatacccttcagtgtggccagtcccaatgaatccagc 5516
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 AATGACCAGAGTGCCCGGATGCCAGTATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGC 180

Qy   5517 tgcccagagagcaggccagtccaatgtcatccataacttacagaagacagcagcacc 5576
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 TGCCCAGAGAGCAGGCCAGCCAATGTCAGTCATCCATAACTTACAGAAGACAGCAGCACC 240

Qy   5577 caacgcttagacctggaggtccacaaaagctcgactcaagtctcgactcctggagaggaggccttcctccac 5636
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CAACGCTTAGACCTGGAGGGCCACCAAAAGCTCGACTCAAGTCTCGACTCCCTGGAGAGCCTTCCCAC 300

Qy   5637 caattgaccttggaccaggctgccaggccccagagaaccccagaagagagggggctgcagggag 5696
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CAATTGACCTTGGACCAGGCTGCCAGGCCCCAGAGGAGGGGGGCTGCAGGGGAG 360

Qy   5697 ctgggccacccctgagggcgggggagcgggaccagctgccaggacccagagggctgcagaggggac 5756
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 CTGGGCCACCCTGAGGGCGGGGGAGCGGGACCAGCTGCCAGGACCCAGAGGGCTCAGGAGGGGAC 420

Qy   5757 gcctacagcaacctcctccgagacaagtcagttctggagagagaagacgaactaagg 5816
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 GCCTACAGCAACCTCCTCCGAGACAAGTCAGTTCTGGAGAGGAAGACGACTAAGG 480

Qy   5817 caagaaaatgagaactctggccaggagggagttggaaagcagcagcaagaggagtagcaaggctg 5876
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 CAAGAAAATGAGAATCTGGCCAGGAGTTGGAAAGCAGCAGCACCAGGAGGTAGCAAGGCTG 540

Qy   5877 agaaggggcaagtgtccccggacccagagacaactgtctcggggctgttgccaccaggctccaga 5936
           |||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 AGAAGGGGCCAGTGTCCCCAGACCCGAGACACTGCTCGGGGCTGTGCCACCAGGCTCCAGA 600

Qy   5937 gaaggt 5942
           ||||||
Db   601 GAAGTT 606

RESULT 6
US-08-882-238A-3
Sequence 3, Application US/08882238A
Patent No. 5854415

GENERAL INFORMATION:

APPLICANT: NGUYEN, THAI D.
APPLICANT: POLANSKY, JON R.
APPLICANT: HUANG, WEIDONG

TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF GLAUCOMA

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:
ADDRESSEE: HOWREY & SIMON
STREET: 1299 PENNSYLVANIA AVE., N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: US
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

RESULT 5
US-08-645-900A-3
Sequence 3, Application US/08645900A
Patent No. 5849879

GENERAL INFORMATION:

APPLICANT: NGUYEN, THAI D.
APPLICANT: POLANSKY, JON R.
APPLICANT: HUANG, WEIDONG

TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF GLAUCOMA

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:
ADDRESSEE: HOWREY & SIMON
STREET: 1299 PENNSYLVANIA AVE., N.W.
CITY: WASHINGTON
STATE: US
COUNTRY: US
ZIP: 2004

Db   690 CACTTTGGCCTTCCAGGAACTGA 712
               ||| ||

Qy   5959 gggacttcagttcagcaggtga 5981
               | |||
Db   630 CCCGAGACACTGCTCGGGGCTGTGCCACCAGGCTCCAGAGAAGAAGTTCTACGTGGAATTTGGA 689

Qy   5899 cccgagacactgctcggggctgtgccaccaggctccagagaaggtaagaatgcagagtggg 5958
           |||||||||||||||||||||||||||||||||||||||||||||||| |
Db   630 CCCGAGACACTGCTCGGGGCTGTGCCACCAGGCTCCAGAGAAGAAGTTCTACGTGGAATTTGGA 689

Qy   5899 cccgagacactgctcggggctgtgccaccaggctccagagaaggtaagaatgcagagtggg 5958
           |||||||||||||||||||||||||||||||||||||||||
Db   570 GGAGGTTGGAAAAGCAGCAGCCAGGAGGTAGCAAGGCTGAGAAGGGGCCAGTGTCCCCAGA 629

Qy   5839 ggaggttggaaaagcagcagccaggaggtagcaaggctgagaaggggccagtgtccccaga 5898
           |||||||||||||||||||||||||||||||||||||||||
Db   510 ACAAGTCAGTTCTGGAGGAGAAGACGACTAAGGCAAGAAAATGAGAATCTGGCCA 569

Qy   5779 acaagtcagttctggaggagaagacgactaaggcaagaaaatgagaatctggcca 5838
           |||||||||||||||||||||||||||||||||||||||||
Db   450 GGGACCAGCTGGGAAACCCAAACCAGAGGGAGTTGGAGACTGCTGCCAGGCCCCAGAG 509

Qy   5719 gggaccagctgggaaacccaaaccagagggagttggagactgctgccaggccccagag 5778
           |||||||||||||||||||||||||||||||||||||||||
Db   390 CCAGGCCCCAGGAGACCCAGGAGGGGGGCTGCACCCTGAGGGCGGGGAGC 449

Qy   5659 ccaggccccaggagacccaggaggggggctgcaccctgagggcgggggagc 5718
           |||||||||||||||||||||||||||||||||||||||||
Db   330 CCAAAGCTCGACTCCCTGGAGAGCCTTCCCACCAATTGACCTTGGACCAGGCTG 389

Qy   5599 ccaaagctcgactcccctggagagcctttcccaccaattgaccttggaccaggctg 5658
           |||||||||||||||||||||||||||||||||||||||||
Db   270 TGTCAGTCATCCATAACTTACAGAAGACAGCAGCACCCAACGCTTAGACCTGGAGGGCCA 329

Qy   5559 ... tgtcagtcatccataacttacagaagacagcagcacccaacgcttagacctggagggcca ...

```
:   SOFTWARE: Patentin Release #1.0, Version #1.25
:   CURRENT APPLICATION DATA:
:     APPLICATION NUMBER: US/08/882,238A
:     FILING DATE: 25 JUNE 1997
:     CLASSIFICATION: 435
:   ATTORNEY/AGENT INFORMATION:
:     NAME: MARSH, DAVID
:     REGISTRATION NUMBER: 41,408
:   TELECOMMUNICATION INFORMATION:
:     TELEPHONE: (202) 383-6610
:     TELEFAX: (202) 383-7451
:   INFORMATION FOR SEQ ID NO: 3:
:     SEQUENCE CHARACTERISTICS:
:       LENGTH: 1512 base pairs
:       TYPE: nucleic acid
:       STRANDEDNESS: single
:       TOPOLOGY: linear
:     MOLECULE TYPE: cDNA
US-08-882-238A-3

Query Match             9.8%;  Score 604.4;  DB 3;  Length 1512;
Best Local Similarity  99.8%;  Pred. No. 8.6e-139;
Matches  605;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy   5337 atgaggttcttctgtgcacgttgctgcagtgtggggcctgagatgccagtcgtccagctg 5396
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 atgaggttcttctgtgcacgttgctgcagtgtggggcctgagatgccagtcgtccagctg   60

Qy   5397 ctgcttctggcctcggttcgtgtgggatgtgggggccaggacaagctcagctcaggagggcc 5456
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 ctgcttctggcctcggttcgtgtgggatgtgggggccaggacaagctcagctcaggaaggcc  120

Qy   5457 aatgaccaagagtggccgatatacctcaggtatacctcagtgtggcccaatgaatccagc 5516
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 aatgaccaagagtggccgatgccagtataccttcagtgtggccagtccaatgaatccagc  180

Qy   5517 tgcccagagcagagcaagccatgtcagtcatccataacttacagagagacagcagccacc 5576
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 TGCCCAGAGCAGAGCCAGGCCATGTCAGTCATCCATAACTTACAGAGAGACAGCAGCCACC  240

Qy   5577 caacgccttagacctggaggccaccaaagctcgacttccctggagagctcctccac 5636
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 CAACGCCTTAGACCTGGAGGCCACCAAAGCTCGACTTCCCTGGAGAGCTCCTCCAC  300

Qy   5637 caattgacctggaccaggctgtccaggagccaggaggaggggctgccagggaggc 5696
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301 CAATTGACCTGGACCAGGCTGTCCAGGAGCCCAGGAGGAGGGGCTGCCAGGGAGGCTG  360

Qy   5697 ctgggcaccctgagggcgggagcgggaccagctgaaaccccaaccagagagagttggagact 5756
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361 CTGGGCACCCTGAGGGCGGGAGCGGGACCAGCAGCCAAAACCAGAGAGAGTTGGAGACT  420

Qy   5757 gcctacagcaacctcctccggagacaagtcagttctggaggaagaagaagacgactaagg 5816
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421 GCCTACAGCAACCTCCTCCGGAGGAAGAGAAGAAGAACGGACTAAGG  480

Qy   5817 caagaaaatgagaatctggccagagaggttggaaatcagcagccatgtagcaggctg 5876
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481 CAAGAAAATGAGAATCTGGCCACAGGTTGAAAAGCAGCAGGTTAGCGGTAGCAAGGCTG  540

Qy   5877 agaagggccagtgtcccagacactgctcgggtgtgccaccaggctccaga 5936
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541 AGAAGGGGCCAGTGTCCCAGACACTGCTCGGGTGTGCCACCAGGCTCCAGA  600

Qy   5937 gaaggt 5942
          ||||||
Db    601 GAAGTT 606

RESULT  7
US-08-667-790A-3
; Sequence 3, Application US/0867790A
```

```
:   Patent No. 5861497
:   GENERAL INFORMATION:
:     APPLICANT: NGUYEN, THAI D.
:     APPLICANT: POLANSKY, JON R.
:     APPLICANT: HUANG, WEIDONG
:     TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF
:     TITLE OF INVENTION: GLAUCOMA
:     NUMBER OF SEQUENCES: 3
:     CORRESPONDENCE ADDRESS:
:       ADDRESSEE: HOWREY & SIMON
:       STREET: 1299 PENNSYLVANIA AVE., N.W.
:       CITY: WASHINGTON
:       STATE: D.C.
:       COUNTRY: US
:       ZIP: 20004
:     COMPUTER READABLE FORM:
:       MEDIUM TYPE: Floppy disk
:       COMPUTER: IBM PC compatible
:       OPERATING SYSTEM: PC-DOS/MS-DOS
:       SOFTWARE: Patentin Release #1.0, Version #1.25
:     CURRENT APPLICATION DATA:
:       APPLICATION NUMBER: US/08/667,790A
:       FILING DATE: 21 JUNE 1996
:       CLASSIFICATION:
:     ATTORNEY/AGENT INFORMATION:
:       NAME: MARSH, DAVID
:       REGISTRATION NUMBER: 41,408
:     TELECOMMUNICATION INFORMATION:
:       TELEPHONE: (202) 383-6610
:       TELEFAX: (202) 383-7451
:     INFORMATION FOR SEQ ID NO: 3:
:       SEQUENCE CHARACTERISTICS:
:         LENGTH: 1512 base pairs
:         TYPE: nucleic acid
:         STRANDEDNESS: single
:       TOPOLOGY: linear
:       MOLECULE TYPE: cDNA
US-08-667-790A-3

Query Match             9.8%;  Score 604.4;  DB 3;  Length 1512;
Best Local Similarity  99.8%;  Pred. No. 8.6e-139;
Matches  605;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy   5337 atgaggttcttctgtgcacgttgctgcagtgtggggcctgagatgccagtcgtccagctg 5396
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 atgaggttcttctgtgcacgttgctgcagtgtggggcctgagatgccagtcgtccagctg   60

Qy   5397 ctgcttctggcctcggttcgtgtgggatgtgggggccaggacaagctcagctcaggagggcc 5456
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 CTGCTTCTGGCCTCGGTTGTGTGGGATGTGGGGGCCAGGACAAGCTCAGCTCAGGAAGGCC  120

Qy   5457 aatgaccaagagtggccgatgccagtataccttcagtgtggcccaatgaatccagc 5516
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 AATGACCAGAGTGGCCGATGCCAGTATACCTTCAGTGTGGCCAGTCCAATGAATCCAGC  180

Qy   5517 tgcccagagcagagccaggccatgtcagtcatccataacttacagagagacagcagccacc 5576
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 TGCCCAGAGCAGAGCCAGGCCATGTCAGTCATCCATAACTTACAGAGAGACAGCAGCCACC  240

Qy   5577 caacgccttagacctggaggccaccaaagctcgacttccctggagagctcctccac 5636
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 CAACGCCTTAGACCTGGAGGCCACCAAAGCTCGACTTCCCTGGAGAGCTCCTCCAC  300

Qy   5637 caattgacctggaccaggctgtccaggagccaggaggaggggctgccagggagg 5696
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301 CAATTGACCTGGACCAGGCTGTCCAGGAGCCCAGGAGGAGGGGCTGCCAGGGAGG  360

Qy   5697 ctgggcaccctgagggcgggagcgggaccagctgaaacccaaccagagagagttggagact 5756
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361 CTGGGCACCCTGAGGGCGGGAGCGGGACCAGCAGCCAAAACCAGAGAGAGTTGGAGACT  420

Qy   5757 gcctacagcaacctcctccggagacaagtcagttctggaggaagaagaagacgactaagg 5816
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421
```

```
Qy       421 GCCTACAGCAACCTCCTCCGAGACAACAAGTCAGTTCTGGAGGAGGAGGAGGAGCCGACTAAGG 480
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy      5817 caagaaaatgagaatctggccacgggggaggtagcaagcgctg 5876
             ||||||||||||||||||||||||||||||||||||||||||||
Db       481 CAAGAAAATGAGAATCTGGCCACGGGGAGGTTGGAAAGCACACAGCGAGGTAGCGAAGGCTG 540
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy      5877 agaagggggccagtgtgtcccagaagaccacctggagctggggctcaga 5936
             ||||||||||||||||||||||||||||||||||||||||||||||||||
Db       541 AGAAGGGGGCCAGTGTCCCCAGAGACCCGAGACACACTGCTCGGGCGTCGTGTGCCACCAGGCTCCAGA 600
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy      5937 gaaggt 5942
             ||||||
Db       601 GAAGTT 606
```

```
Query Match             9.8%;  Score 601.8; DB 3;  Length 1509;
Best Local Similarity  95.8%;  Pred. No. 3.7e-138;
Matches 618;  Conservative  0;  Mismatches 27;  Indels  0;  Gaps  0;

Qy      5337 atgaggttcctctgtgcacgttgggcgctgaatgcagctgtccaagctg 5396
             ||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1 ATGAGGTTCTCTGTGCACGGTTGCTCCAGCTTTGGGCCTGAGATGCCGTGTCCAGCTG 60
             ||||||||||||||||||||||||||||||||||||||||||||||||||
Qy      5397 ctgcttctggcctgcctggtggatgtgggggccaggacaagctcagctcaggaaggcc 5456
             ||||||||||||||||||||||||||||||||||||||||||||||||||
Db        61 CTGCTTCTGGCCTGCCTGGTGTCGGGATGGGGGCCAGGACAGCTCAGCTCAGGAAGGCC 120
             ||||||||||||||||||||||||||||||||||||||||||||
Qy      5457 aatgaccaagagtggccagtacacttcagtgtggccagtcccaatgaatccagc 5516
             ||||||||||||||||||||||||||||||||||||||||||||
```

```
Db       121 AATGACCAGAGTGGCCGGATGCCAGTATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGC 180
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       181 TGCCCGAGCAGAGACCAGGCCAGTGTCAGTCATCCATAACTTACAGAAAGAGACAGCAGCAC 240
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy      5577 caagctagacctgaggcaggacccacaaagctcgactcagctcctgtgggagagcctctcccac 5636
             ||||||||||||||||||||||||||||||||||||||||||||
Db       241 CAACGCTTAGACCTGGAGGCCACCAAAGCTCACTCACCTCCTGTGGGAGAGCCTCTCCAC 300
             |||||||||||||||||||||||||||||||||||||||||||||||||||
Qy      5637 caattgacctttggacaggctgccaggacgccccaggaggagaccaggaggggctgcaggagttg 5696
             ||||||||||||||||||||||||||||||||||||||||||||
Db       301 CAAATTGACCTTTGGACAGGCTGCCAGGACGCCCCAGGAGGAGACCAGGAGGGGCTGCAGGAGTTG 360
             ||||||||||||||||||||||||||||||||||||||||||||
Qy      5697 ctgggcacccttgaggtcggggaggggagacagctgggaaacccaaaccaaacccagagagagttgggaagact 5756
             ||||||||||||||||||||||||||||||||||||||||||||
Db       361 CTGGGCACCCTGAGGGCGGGGAGCGGGGACCAGCGGGGGAGGAGCCCAAAACCAGAGACAGTTGGAGACT 420
             ||||||||||||||||||||||||||||||||||||||||||||
Qy      5757 gcctcacagcaacctccctccgagacaagtcagttctgtgagggaggagagagaagcgactaagg 5816
             ||||||||||||||||||||||||||||||||||||||||||||
Db       421 GCCTACAGCAACCTCCTCCGAGACAACAAGTCAGTTCTGGAGGAGGAGGAGGAGCCGACTAAGG 480
             ||||||||||||||||||||||||||||||||||||||||||||
Qy      5817 caagaaaatgagaatctggccacgggggaggttggaaagcacagcagctggaagagagagaagcgactaagg 5876
             ||||||||||||||||||||||||||||||||||||||||||||
Db       481 CAAGAAAATGAGAATCTGGCCACGGGGAGGTTGGAAAGCACAGCGAGGTAGCGAAGGCTG 540
             ||||||||||||||||||||||||||||||||||||||||||||
Qy      5877 caagctagacctgggggcaccaaagctcgactcagctcctgtgggagagcctctcccac 5936
             ||||||||||||||||||||||||||||||||||||||||||||
Db       541 CAACGCTTAGACCTGGAGGCCACCAAAGCTCACTCACCTCCTGTGGGAGAGCCTCTCCAC 600
             ||||||||||||||||||||||||||||||||||||||||||||
Qy      5937 gaaggtaagaatgcagagtggggactctgagttcagcaggtga 5981
             |||||    |||      |||
Db       601 GAAGTTCACGTGGAATTTGGACACTTTGGCCTTCCAGGAACTGA 645
```

```

```
;   MOLECULE TYPE: cDNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
;   IMMEDIATE SOURCE:
;   CLONE: TIGR
;   PCT-US95-14024-2
```

```
Query Match     9.0%;  Score 556.6;  DB 6;  Length 1968;
Best Local Similarity   94.6%;  Pred. No. 5.2e-127;
Matches  609;  Conservative   0;  Mismatches   5;  Indels   30;  Gaps   2;
```

```
Qy   5299 gcagagctttccagaggaaggaagcctcaccaagcctctgcaatgaggttcttctgtgcacgtt 5358
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     31 GNAGAGCTTTCCAGAGGAAGCCTCACCAAGCCTCTGCAATGAGGTTCTTCTGTGCACGTT 90

Qy   5359 gctgcagcttcgggcctgagatgccagctgtccagctgtcttctgggctcctgggtgt 5418
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     91 GCTGCAGCTTTGGGCCTGAGATGCCAGCTGTCCAGCTGTCTTCTGGGCTCCTGTGTGT 150

Qy   5419 gggatgtggggccaggacagctcagctcaggaaggccaatggccaggccgatgcc 5478
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    151 GGGATGTGGGGCCAGGACAGCTCACGTCAGGAAGGCCAATGGCCAGGCCGATGCC 210

Qy   5479 agtataccttcagtgtggccagtcccaatgaatccagcagagagccaggcca 5538
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    211 AGTATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGCAGAGAGCCAGGCCA 270

Qy   5539 tgtcagtcatccataacttacagagagacagcagcaccaccaagcttagacctggaggca 5598
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    271 TGTCAGTCATCCATAACTTACAGAGAGACAGCAGCACCACCAAGCTTAGACCTGGAGGCCA 330

Qy   5599 ccaaagctcgactcagctccctggagagagcctccctccaccaaatgaccttgacccaggctg 5658
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    331 CCAAAGCTCGACTCAGCTCCCTGGAGAGCGCCTCCCTCCACCAATTGACCTTGACCAGGCTG 390

Qy   5659 ccaggccccaggagagagggggctgcagaggaggagcaactcctccgag 5718
          |||||||||||||||||||||||||||||||||||---------------
Db    391 CCAGG-CCCAGGAGAGACCAG----------------GAGGCGGGAGC 420

Qy   5719 gggaccaagctcggaaacccaaaccagagagagtcggagactgcctacagcaacctcctccgag 5778
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421 GGGACCAGCTGGAAACCCAAACCAGAGTTGGAGACTGCCTACAGCAACCTCCTCCGAG 480

Qy   5779 acaagtcagttctggaggaggaagagaagcgactaaggcaagaaaatgagaatctggcca 5838
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481 ACAAGTCAGTTCTGGAGGAGGAAGAGAAGCGACTAAGGCAAGAAAATGAGAATCTGGCCA 540

Qy   5839 ggaggttggaaagcagcagcagcaggaggtagcaaggctagcaggaggggccagtgtccccaga 5898
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541 GGAGGTTGGAAAGCAGCAGCAGGAGGTAGCAAGGCTAGCAGGAGGGGCCAGTGTCCCAGTA 600

Qy   5899 cccggacacctgctccgggctcgtgccaccaggctccagagaggt 5942
          |||||||||||||||||||||||||||||||||||||||||||||
Db    601 CCCGACACACTGCTCCGGGCTCGTGCCACCAGGCTCCAGAGAAGTT 644
```

```
RESULT 10
US-08-336-235A-2
Sequence 2, Application US/08336235A
Patent No. 5660043
GENERAL INFORMATION:
    APPLICANT: NGUYEN, THAI D.
    APPLICANT: POLANSKY, JON R.
    APPLICANT: HUANG, WEIDONG
    TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF GLAUCOMA
    NUMBER OF SEQUENCES: 3
    CORRESPONDENCE ADDRESS:
        ADDRESSEE: HOWREY & SIMON
        STREET: 1299 PENNSYLVANIA AVE., N.W.
        CITY: WASHINGTON
        STATE: D.C.
        COUNTRY: US
```

```
Qy 5899 cccagagacactgctcggggtgtggccaccaggggctccaggagagaaggt 5942
        ||||||||||||||||||||||||||||||||||||||| ||||||||
Db  601 CCCGAGACACTGCTCGGGGCTGTGCCACCAGGCTCCAGAGAAGTT 644

RESULT 11
US-08-649-432-2
Sequence 2, Application US/08649432
Patent No. 5789169
GENERAL INFORMATION:
  APPLICANT: NGUYEN, THAI D.
  APPLICANT: POLANSKY, JON R.
  APPLICANT: HUANG, WEIDONG
  TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF GLAUCOMA
  NUMBER OF SEQUENCES: 3
  CORRESPONDENCE ADDRESS:
    ADDRESSEE: HOWREY & SIMON
    STREET: 1299 PENNSYLVANIA AVE., N.W.
    CITY: WASHINGTON
    STATE: D.C.
    COUNTRY: US
    ZIP: 20004
  COMPUTER READABLE FORM:
    MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
    OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: PatentIn Release #1.0, Version #1.25
  CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/08/649,432
    FILING DATE: 17-MAY-1996
    CLASSIFICATION: 435
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: 08/336,235
    FILING DATE:
  ATTORNEY/AGENT INFORMATION:
    NAME: AUERBACH, JEFFREY I
    REGISTRATION NUMBER: 32,680
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (202) 383-7451
    TELEFAX: (202) 383-6610
INFORMATION FOR SEQ ID NO: 2:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 1969 base pairs
    TYPE: nucleic acid
    STRANDEDNESS: double
    TOPOLOGY: linear
  MOLECULE TYPE: cDNA
  ANTI-SENSE: NO
  IMMEDIATE SOURCE:
    CLONE: TIGR
US-08-649-432-2

Query Match 94.6%; Score 556.6; DB 2; Length 1969;
Best Local Similarity 94.6%; Conservative 0; Mismatches 5; Pred No. 5.2e-127;
Matches 609; Conservative 0; Mismatches 5; Indels 30; Gaps 2;

Qy 5299 gcagaagcttccagaggagaagcctcaccaagcctctgcaatgaggtgtcttctgtgcacgtt 5358
         | |||||||||||||||||||||||||||||||||||||||||||||||||
Db   31 GNAGAGCTTTCCAGAGGAAGCCCTCACCAAGCCTCTGCAATGAGGTTCTTCTGTGCACGTT 90

Qy 5359 gctgcagcttgggccctagatatccagctgtctgctctcggcctggtgt 5418
        ||||||||||||||||| ||||||||||||| ||||||||||||||||
Db   91 GCTGCAGCTTGGGCCTGAGAATGCCAGCTGTCCAGCTGCTTCTGGCCTGGTGT 150

Qy 5419 gggatgtggggccaggacagctcagtgaaggccaatgaccagaggtggccgaatgcc 5478
        |||||||||||||||||||||||||||||||||||||||||||||| ||||||
Db  151 GGGATGTGGGGCCAGGACAGCTCAGTGAAGGCCAATGACCAGAGGTGGCCGATGCC 210

Qy 5479 agtatacttcagtgtggccagtcccaatgaatccagctgcccagagacgaagaccaaggcca 5538
        |||||| ||||||||||||||||||||||||||||||||||||||
Db  ...
```

```
Db  211 AGTATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGCTGCCCAGAGACGCAGAGCCAGGCCA 270

Qy 5539 tgtcagtcatccataacttacagaggagagcagcagcagcaccaaagcgttagacctgaaggcca 5598
        |||||||||||||||||||||||||||| ||||| || |||||||||||||||||
Db  271 TGTCAGTCATCCATAACTTACAGAGGAGACGACAGCAGCAACCGCTTAGACCTGGAGGCCA 330

Qy 5599 ccaaagctcgactcagctccctggagagccctctccaccgagaccaacg 5658
        |||||||||||||||||||||||||||||||||||||||||||||||||
Db  331 CCAAAGCTCGACTCAGCTCCCTGGAGAGCCCTCTCCACCGAGACCAACG 390

Qy 5659 ccaggcccaggagaccaggggggctgcagaggagctgggcacctgaggcgggagc 5718
        |||||||||||||||||||||||||||||||||||||| ||||||
Db  391 CCAGG-CCCAGGAGAGCCCAG-------------GAGGCGGGAGC 420

Qy 5719 gggaccagctggaaacccaaaccagagaagttggagactgcctacagcaacctctccgag 5778
        ||||||||||||||||||||||||||||||||| |||| ||||||||||||||||||||
Db  421 GGGACCAGCTGGAAACCCAAACCAGAGACGAGTTGGACACTGCCTACAGCAACCTCTCCGAG 480

Qy 5779 acaagtcagttctgagggaggaagagaagcaagtcaagaaaaatgagaatctggcca 5838
        |||| |||||||||||| ||||||| |||||||||||||||||||||||||||||||
Db  481 ACAGTCAGTTCTGAGGAGGAAGCAGCAGCAGGAAGAGAAGCAAGAAAAATGAGAATCTGGCCA 540

Qy 5839 ggaggttggaaagcagcagccaggaggggtagcaaggctgaggaaggggccagtgtcccaga 5898
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  541 GGAGGTTGGAAAGCAGCAGCCAGGAGGGGTAGCAAGGCTGAGGAAGGGGCCAGTGTCCCAGTA 600

Qy 5899 cccagagacactgctcggggtgtggccaccaggggctccaggagagaaggt 5942
        ||||||||||||||||||||| ||| |||||||||||||||||||| |||
Db  601 CCCGAGACACTGCTCGGGGCTGTGCCACCAGGCTCCAGAGAAGTT 644

RESULT 12
US-08-336-235A-3
Sequence 3, Application US/0836235A
Patent No. 5606043
GENERAL INFORMATION:
  APPLICANT: NGUYEN, THAI D.
  APPLICANT: POLANSKY, JON R.
  APPLICANT: HUANG, WEIDONG
  TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF GLAUCOMA
  NUMBER OF SEQUENCES: 3
  CORRESPONDENCE ADDRESS:
    ADDRESSEE: HOWREY & SIMON
    STREET: 1299 PENNSYLVANIA AVE., N.W.
    CITY: WASHINGTON
    STATE: D.C.
    COUNTRY: US
    ZIP: 20004
  COMPUTER READABLE FORM:
    MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
    OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: PatentIn Release #1.0, Version #1.25
  CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/08/336,235A
    FILING DATE:
    CLASSIFICATION: 536
  ATTORNEY/AGENT INFORMATION:
    NAME: AUERBACH, JEFFREY I
    REGISTRATION NUMBER: 32,680
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (202) 383-7451
    TELEFAX: (202) 383-6610
INFORMATION FOR SEQ ID NO: 3:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 1491 base pairs
    TYPE: nucleic acid
    STRANDEDNESS: double
    TOPOLOGY: linear
  MOLECULE TYPE: cDNA
  ANTI-SENSE: NO
  HYPOTHETICAL: NO
  IMMEDIATE SOURCE:
```

; CLONE: TIGR coding sequence
; US-08-336-235A-3

Query Match   8.4%; Score 519.6; DB 1; Length 1491;
Best Local Similarity 94.4%; Pred. No. 5.3e-118;
Matches 572; Conservative 0; Mismatches 4; Indels 30; Gaps 2;

```
Qy 5337 atgaggttcttctgtgtcaacgttgctcgcagcttgggcctgagatgccagctgtccagctg 5396
        |||||||||||||| |||||||||| |||||||  |||||||||||||||||||||||||||
Db    1 ATGAGGTTCTTCTGTGCAACGTTGCTGCAGCTTTGGGCCTGAGATGCCAGCTGTCCAGCTG   60

Qy 5397 ctgcttctggcctgcctggttgtggggatgtggggccaggagacagcaagtcagtgaaggcc 5456
        ||||||||||||||||||||| ||||||||||||||||||||| ||||||||||||||||||
Db   61 CTGCTTCTGGCCTGCCTGGTGTGTGGGGATGTGGGGCCAGGACAGCTCAGCTGTCCAGAGGCC  120

Qy 5457 aatgaccagagtgtggcccgatgccagtataccttcagttgtggccagtccccaatgaatccagc 5516
        ||||||||||||| |||||||||||  |||||||||||||||||||||||   ||| ||||||||
Db  121 AATGACCAGAGTGCCCGATGCCAGTATATACCTTCAGTGTGTGGCCAGTCCCCAATGAATCCAGC  180

Qy 5517 tgcccagagcagagccaggccatgtcagtcatccataactacgagagagacagcagcacc 5576
        |||||||||||||||||||||||||||||  ||||||||||||||||||||||||||||||
Db  181 TGCCCAGAGCAGAGCCAGGCCATGTCAGTCATCCATAACTTCAGTGTTGGCCAGTCCCCAATGAATCCAGC  240

Qy 5577 caacgcttagaacctgggggccaccaaagctcgactcagctcagtctccctggagagcctctcccac 5636
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 CAACGCTTAGACCTGGAGGGCCACCAAAGCTCGACTCAGCTCAGTCTCCCTGGAGAGCCTCTCCAC  300

Qy 5637 caattgacccttggaccaggcctgccaggccccaggaggaccaggagggggctgcagaggggag 5696
        |||||||| |||||||| |||||||||||||||||||||||||||||||||||||||||||||
Db  301 CAATTGACCTTGGACCAGGCTGCCAGG--CCCAGGAGGACCCAG------------------  341

Qy 5697 ctgggcaccctgaggcggggagcgggacccagctggaaaacccaaaccacagagagttggagact 5756
                                     --------GAGGCGGGAGCGGGACCCAGCTGGAAAACCCAAACCACAGAGAGTTGGAGACT  390
Db  342

Qy 5757 gcctacagcaacctcctccgagacaagtcagttctggaggagagcagcagcaagacgactaagg 5816
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  391 GCCTACAGCAACCTCCTCCGAGACAAGTCAGTTCTGGAGGAGAGCAGCAGCAAGCGACTAAGG  450

Qy 5817 caagaaaatgagaatctggccaggaggttggaaagcagcagccaggaggtagcaaggctg 5876
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  451 CAAGAAAATGAGAATCTGGCCAGGAGGTTGGAAAGCAGCAGCCAGGAGGTAGCAAGGCTG  510

Qy 5877 agaagggggccagtgtcccagaccgagaacctctcgggctgtgccaccaggctccaga 5936
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  511 AGAAGGGGGCCAGTGTCCCAGACTACCCGAGACACTGCTCGGGCTGTGCCACCAGGCTCCAGA  570

Qy 5937 gaaggt 5942
        |||||
Db  571 GAAGTT 576
```

RESULT 13
US-08-649-432-3
Sequence 3, Application US/08649432
Patent No. 5789169
; GENERAL INFORMATION:
; APPLICANT: NGUYEN, THAI D.
; APPLICANT: POLANSKY, JON R.
; APPLICANT: HUANG, WEIDONG
; TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF GLAUCOMA
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWREY & SIMON
; STREET: 1299 PENNSYLVANIA AVE., N.W.
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: US
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/649,432
; FILING DATE: 17-MAY-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/336,235
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: AUERBACH, JEFFREY I
; REGISTRATION NUMBER: 32,680
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 383-7451
; TELEFAX: (202) 383-6610
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1491 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE:
; CLONE: TIGR coding sequence
; US-08-649-432-3

Query Match   8.4%; Score 519.6; DB 2; Length 1491;
Best Local Similarity 94.4%; Pred. No. 5.3e-118;
Matches 572; Conservative 0; Mismatches 4; Indels 30; Gaps 2;

```
Qy 5337 atgaggttcttctgtgtcaacgttgctcgcagcttgggcctgagatgccagctgtccagctg 5396
        |||||||||||||| |||||||||| |||||||  |||||||||||||||||||||||||||
Db    1 ATGAGGTTCTTCTGTGCAACGTTGCTGCAGCTTTGGGCCTGAGATGCCAGCTGTCCAGCTG   60

Qy 5397 ctgcttctggcctgcctggttgtggggatgtggggccaggagacagcaagtcagtgaaggcc 5456
        ||||||||||||||||||||| ||||||||||||||||||||| ||||||||||||||||||
Db   61 CTGCTTCTGGCCTGCCTGGTGTGTGGGGATGTGGGGCCAGGACAGCTCAGCTGTCCAGAGGCC  120

Qy 5457 aatgaccagagtgtggcccgatgccagtataccttcagttgtggccagtccccaatgaatccagc 5516
        ||||||||||||| |||||||||||  |||||||||||||||||||||||   ||| ||||||||
Db  121 AATGACCAGAGTGCCCGATGCCAGTATATACCTTCAGTGTGTGGCCAGTCCCCAATGAATCCAGC  180

Qy 5517 tgcccagagcagagccaggccatgtcagtcatccataactacgagagagacagcagcacc 5576
        |||||||||||||||||||||||||||||  ||||||||||||||||||||||||||||||
Db  181 TGCCCAGAGCAGAGCCAGGCCATGTCAGTCATCCATAACTTCAGTGTTGGCCAGTCCCCAATGAATCCAGC  240

Qy 5577 caacgcttagaacctgggggccaccaaagctcgactcagctcagtctccctggagagcctctcccac 5636
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 CAACGCTTAGACCTGGAGGGCCACCAAAGCTCGACTCAGCTCAGTCTCCCTGGAGAGCCTCTCCAC  300

Qy 5637 caattgacccttggaccaggcctgccaggccccaggagggggaggagggggctgcagaggggag 5696
        |||||||| |||||||| |||||||||||||||||||||||||||||||||||||||||||||
Db  301 CAATTGACCTTGGACCAGGCTGCCAGG--CCCAGGAGGACCCAG------------------  341

Qy 5697 ctgggcaccctgagggcggggagcgggacccagctggaaaacccaaaccacagagagttggagact 5756
                                     --------GAGGCGGGAGCGGGACCCAGCTGGAAAACCCAAACCACAGAGAGTTGGAGACT  390
Db  342

Qy 5757 gcctacagcaacctcctccgagacaagtcagttctggaggagagcagcagcaagacgactaagg 5816
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  391 GCCTACAGCAACCTCCTCCGAGACAAGTCAGTTCTGGAGGAGAGCAGCAGCAAGCGACTAAGG  450

Qy 5817 caagaaaatgagaatctggccaggaggttggaaagcagcagccaggaggtagcaaggctg 5876
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  451 CAAGAAAATGAGAATCTGGCCAGGAGGTTGGAAAGCAGCAGCCAGGAGGTAGCAAGGCTG  510

Qy 5877 agaagggggccagtgtcccagaccgagaacctctcgggctgtgccaccaggctccaga 5936
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  511 AGAAGGGGGCCAGTGTCCCAGACTACCCGAGACACTGCTCGGGCTGTGCCACCAGGCTCCAGA  570
```

```
Qy      5937  gaaggt 5942
              ||||||
Db       571  GAAGTT 576
```

RESULT 14
PCT-US95-14024-3
Sequence 3, Application PC/TUS9514024
GENERAL INFORMATION:
 APPLICANT: NGUYEN, THAI D.
 APPLICANT: POLANSKY, JON R.
 APPLICANT: HUANG, WEIDONG
 TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS OF GLAUCOMA
 NUMBER OF SEQUENCES: 3
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: HOWREY & SIMON
 STREET: 1299 PENNSYLVANIA AVE., N.W.
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: US
 ZIP: 20004
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/14024
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: AUERBACH, JEFFREY I
 REGISTRATION NUMBER: 32,680
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 383-7451
 TELEFAX: (202) 383-6610
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1491 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 IMMEDIATE SOURCE:
 CLONE: TIGR coding sequence
PCT-US95-14024-3

```
Query Match             8.4%;  Score 519.6; DB 6;  Length 1491;
Best Local Similarity  94.4%;  Pred. No. 5.3e-118;
Matches  572; Conservative  0; Mismatches  4;  Indels  30; Gaps  2;

Qy  5337  atgaggttcttcttgtgcacgttgctgcagcttgggccttgagagatgccagcttcagctg  5396
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1  ATGAGGTTCTTCTTGTGCACGTTGCTGCAGCTTGGGCCTTGAGAGATGCCAGCTTCAGCTG  60

Qy  5397  ctgcttcctctggtcctggttgtggggggccaggaagacagcttcaggaaggcc  5456
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  CTGCTTCTGGCCTCTGGTGTGGGGATGGGGGGCCAGGACAGCTCAGCTGAGGAAGGCC  120

Qy  5457  aatgaccagaggtgccgatgccagtataccttcagtgtgtgccagtcccaatgaatccagc  5516
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  AATGACCAGAGTGGCCGATGCCAGTATACCTTCAGTGTGTGGCCAGTCCCAATGAATCCAGC  180

Qy  5517  tgcccaggagagagagccaagccaagccatgtcagtcatcatccatatacagaagcagcacc  5576
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  TGCCCAGGAGAGCAGGAGGCCAGGCCCATGTCAGTCATCCATAACTTACAGAAGCAGCACC  240

Qy  5577  caacgcttagacctggaggcccaccaaagctcgactcccctgggagagagctcctccac  5636
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241  CAAGCCTTAGACCTGGAGGCCCACCAAAGCTCGACTCCCTGGGAGAGAGCCTCCCAC  300
```

```
Qy      5937  gaaggt 5942
              ||||||
Db       571  GAAGTT 576
```

RESULT 15
US-08-791-347-15
Sequence 15, Application US/08791347
Patent No. 5857776
GENERAL INFORMATION:
 APPLICANT: Stone, Edwin M.
 APPLICANT: Sheffield, Val C.
 APPLICANT: Alward, Wallace L.M.
 TITLE OF INVENTION: GLAUCOMA COMPOSITIONS AND THERAPEUTIC
 TITLE OF INVENTION: AND DIAGNOSTIC USES THEREFOR
 NUMBER OF SEQUENCES: 16
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: FOLEY, HOAG & ELIOT LLP
 STREET: One Post Office Square
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02109-2170
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/791,347
 FILING DATE: 30-JAN-1997
 CLASSIFICATION: 514
 ATTORNEY/AGENT INFORMATION:
 NAME: Arnold, Beth E.
 REGISTRATION NUMBER: 35,430
 REFERENCE/DOCKET NUMBER: UIA-010.26
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617-832-1000
 TELEFAX: 617-832-7000
 INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 643 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
US-08-791-347-15

```
Query Match             3.3%;  Score 204; DB 3;  Length 643;
Best Local Similarity  97.9%;  Pred. No. 8.6e-41;
Matches  229; Conservative  0; Mismatches  0;  Indels  5; Gaps  2;

Qy  5637  caattgacctggaccaaggctgccagccagtgtcccaggaggagacccaggaggggctgagagggag  5696
          |||||||||||||||||||||||||||||||||||  |||||||||||||||||||||||
Db   301  CAATTGACCTTGGACCAAGGCTCCCAGG--CCAGGAGACCCAG-------          341

Qy  5697  ctgggcaccctgaggcgcgggacgcgggggaccagctggaaacccaaaccagtgggggagact  5756
          |||||||||||||||||||||||||    |||||||||||||||||||||||||||||||||
Db   342  -------------GAGGCGGGGACGCGGGGCCTCCAG--CCCAGGAGGACCCAG------  390

Qy  5757  gcctacagcaacctccccgggacaagtcagttctggaggaagaagaagcggactaagg  5816
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   391  GCCTACAGCAACCTCCTCCGGACAGTCAGTTCTGGAGGAAGAAGAAGCGGACTAAGG  450

Qy  5817  caagaaaaatgagaaatctggccaggaggttggaaagacagcagccaggaggaggtaggcaaggctg  5876
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   451  CAAGAAAATGAGAAATCTGGCCAGGAGGTTGGAAAGACAGCAGCCAGGAGGAGGTAGCAAGGCTG  510

Qy  5877  agaaggggccagtgtcccagaacccagcactgctcgggctgtgtgccaccagggcttcaga  5936
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   511  AGAAGGGGCCAGTGTCCCAGTACCCAGACACTGCTCGGGCTGTGTGCCACCAGGCTCCAGA  570
```

```
Qy  5937  gaaggt 5942
          ||||||
Db   571  GAAGTT 576
```

```
Qy  5941  gtaagaatgcagagtgggggactctgagttcagcaggtgaatatggctcgtagtgaacctg  6000
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1  GTAAGAATGCAGAGTGGGGGACTCTGAGTTCAGCAGGTGAATATGGCTCGTAGTGACCTG    60

Qy  6001  ctacaggcgctccaggcctc----cctgcccttctcctagagactgcacagctagcaca  6056
          ||||||||||||||||||||    ||||||||||||||||||||||||||||||||||
Db    61  CTACAGGCGCTCCAGGCCTCCCTGCCCTTCTCCTAGAGACTGCACAGCTAGCACA     120

Qy  6057  agacagatgaattaaggaaagcaca-cgatcaccttcaagtattactagtaatttagctc  6115
          |||||||||||||||||||||||| ||||||||||||||||||||||||||||||||
Db   121  AGACAGATGAATTAAGGAAAGCACAGCGATCACCTTCAAGTATTACTAGTAATTTAGCTC   180

Qy  6116  ctggagagcttcatttagattagtggttcagagttcttgtgcccctccatgtcag  6169
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  CTGGAGAGCTTCATTTAGATTAGTGGTTCAGAGTTCTTGTGCCCCTCCATGTCAG  234
```

Search completed: December 3, 2000, 19:00:01
Job time: 41727 sec